

Claim Amendments

Claim 1 (currently amended): A switch of a network for switching data comprising:

a fabric for switching the data;

a connection mechanism connected to the fabric for providing data to and from the fabric;

a first port card which receives data at a first rate from the network or sends data at the first rate to the network, the first port card connected to the connection mechanism to send data to or receive the data from the fabric at a connection rate; and

a second port card which receives data at a second rate from the network or sends data at the second rate to the network, the second port card connected to the connection mechanism to send data to or receive data from the fabric at the connection rate, the second port card separating the data received at the second rate into streams of data that together equal the data received at the second port card that are sent concurrently at the connection rate to the fabric and combine the data streams received at the connection rate into data that is sent at the

second rate to the network, the second port card maps the data received at the second rate onto the bus in 4 bit interleaved fashion, ~~and N equals 4~~ the connection rate equals the first rate and the second rate is equal to N times the first rate, where N is an integer equal to 4, and there are N streams.

Claim 2 (canceled)

Claim 3 (currently amended): A switch as described in Claim ~~[[2]]~~ 1 wherein the connection mechanism includes a backplane bus that connects the first port card and the second port card to the fabric.

Claims 4 and 5 (canceled)

Claim 6 (previously presented): A switch as described in Claim 3 wherein the first port card has a first striper which takes the data it receives and sends it on the backplane bus as an OC48 data pipe to the fabric, and the second port card has a second striper which takes the data it receives and sends it as 4 OC48 data pipes to the fabric.

Claim 7 (original): A switch as described in Claim 6 wherein the first port card has a first unstriper which receives data from the fabric on an OC48 data pipe and the second

port card has a second unstriper which receives data from the fabric on 4 OC48 data pipes and concatenates the 4 OC48 data pipes to form 1 wide data bus to send the data as OC192 data to the network.

Claim 8 (original): A switch as described in Claim 7 wherein the first and second striper stripe data they receive on a 48 bit basis to the fabric.

Claim 9 (original): A switch as described in Claim 8 wherein the first and second stripers stripe data so the data does not exceed a 12 bit boundary.

Claim 10 (original): A switch as described in Claim 9 wherein the fabric has an aggregator which receives data from the first and second stripers, and a separator which sends data from the fabric to the first unstriper and the second unstriper.

Claim 11 (currently amended): A method for switching data in a network comprising the steps of:

receiving data at a first rate from the network at a first port card of a switch;

receiving data at a second rate from the network at a second port card of the switch;

sending data from the first port card to a fabric of the switch through a connection mechanism of the switch at a connection rate;

separating the data received at the second rate at the second port card into streams of data that together equal the data received at the second port card; and

sending concurrently at the connection rate to the fabric from the second port card the stream of data along the connection mechanism by mapping with the second port card the data received at the second rate onto the bus in 4 bit interleaved fashion, ~~and N equals 4~~
the connection rate equals the first rate and the second rate is equal to N times the first rate,
where N is an integer equal to 4, and there are N streams.

Claim 12 (canceled)

Claim 13 (currently amended): A method as described in Claim ~~[[12]]~~ 11 wherein the connection mechanism includes a backplane bus that connects the first port card and the second port card to the fabric.

Claims 14 and 15 (canceled)

Claim 16 (previously presented): A method as described in Claim 13 wherein the first port card has a first striper and the second port card has a second striper, and wherein the sending data from the first port card step includes the step of sending the data on the backplane bus with the first striper as an OC482 data pipe to the fabric and the mapping step includes the step of sending the data received by the second striper as 4 OC48 data pipes on the backplane bus to the fabric.

Claim 17 (original): A method as described in Claim 16 wherein the first port card has a first unstriper and the second port card has a second unstriper, and including after the sending the data by the second striper step, there are the steps and of receiving data from the fabric on an OC48 data pipe at the first port card, receiving data from the fabric on 4 OC48 data pipes at the second port card, and concatenating the 4 OC48 data pipes to form 1 wide data bus to send the data as OC192 data to the network by the second port card.

Claim 18 (original): A method as described in Claim 17 wherein the first port card sending step includes the step of striping data with the first striper on a 48 bit basis to the fabric, and the second port card sending step includes the step of striping data with the second striper on a 48 bit basis to the fabric through the bus.

Claim 19 (original): A method as described in Claim 18 wherein the first striper sending step includes the step of striping data to the fabric through the bus so the data does not exceed a 12 bit boundary, and the second striper sending step includes the step of striping data to the fabric through the bus so the data does not exceed a 12 bit boundary.

Claim 20 (currently amended): A switch of a network for switching data comprising:

a plurality of fabrics for switching the data;

a connection mechanism connected to the fabrics for providing data to and from the fabrics;

a first port card which receives data at a first rate from the network or sends data at the first rate to the network, the first port card connected to the connection mechanism to send data as stripes to or receive the data as stripes from each of the fabrics at a connection rate; and

a second port card which receives data at a second rate from the network or sends data at the second rate to the network, the second port card connected to the connection

mechanism to send data as stripes to or receive data as stripes from each of the fabrics at the connection rate, the second port card separating the data received at the second rate into ~~streams~~ the stripes of data that together equal the data received at the second port card that are sent concurrently as stripes at the connection rate to the fabrics and combine the data ~~streams~~ stripes received at the connection rate into data that is sent at the second rate to the network.

Claim 21 (currently amended): A switch as described in Claim 20 wherein the connection rate equals the first rate and the second rate is equal to N times the first rate, where N is an integer greater than or equal to 2, and there are N ~~streams~~ stripes.

Claim 22 (previously presented): A switch as described in Claim 21 wherein the connection mechanism includes a backplane bus that connects the first port card and the second port card to the fabrics.

Claim 23 (previously presented): A switch as described in Claim 22 wherein the second port card maps the data received at the second rate onto the bus in interleaved fashion.

Claim 24 (previously presented): A system as described in Claim 23 wherein the second port card maps the data received at the second rate onto the bus in 4 bit interleaved fashion, and N equals 4.

Claim 25 (currently amended): A method for switching data in a network comprising the steps of:

receiving data at a first rate from the network at a first port card of a switch;

receiving data at a second rate from the network at a second port card of the switch;

sending data as stripes from the first port card to each of a plurality of fabrics of the switch through a connection mechanism of the switch at a connection rate;

separating the data received at the second rate at the second port card into ~~streams~~ stripes of data that together equal the data received at the second port card; and

sending concurrently at the connection rate to each of the fabrics from the second port card the ~~stream~~ stripes of data along the connection mechanism.

Claim 26 (currently amended): A method as described in Claim 25 wherein the connection rate equals the first rate and the second rate is equal to N times the first rate, where N is an integer greater than or equal to 2, and there are N ~~streams~~ stripes.

Claim 27 (previously presented): A method as described in Claim 26 wherein the connection mechanism includes a backplane bus that connects the first port card and the second port card to the fabrics.

Claim 28 (previously presented): A method as described in Claim 27 wherein the sending concurrently step includes the step of mapping with the second port card the data received at the second rate onto the bus in interleaved fashion.

Claim 29 (previously presented): A method as described in Claim 28 wherein the mapping step includes the step of mapping with the second port card the data received at the second rate onto the bus in 4 bit interleaved fashion, and N equals 4.